

AMENDMENTS TO THE CLAIMS

Claims 1 to 7 (Canceled).

8 (New). A device for association with an electrode structure which, in use, is deployed in a tissue region, the device comprising a housing, a generator integrated in the housing to generate energy capable of heating tissue and adapted to be coupled to the electrode structure to apply the energy to the tissue region, a pumping mechanism integrated in the housing and adapted to be attached to tubing to dispense cooling fluid from a source to the tissue region, a controller integrated in the housing and coupled to the generator and the pumping mechanism, to enable control of the generator in supplying energy to the electrode structure to raise tissue temperature in the tissue region, in concert with operation of the pumping mechanism in supplying cooling fluid to the tissue region to control the tissue temperature, a user interface including command inputs coupled to the controller, the command inputs including at least one generator control input for receiving from an operator an input affecting operation of the generator and at least one pump control input for receiving from an operator an input affecting operation of the pumping mechanism, the user interface including a first visual image displayed in association with the generator control input and a second visual image displayed in association with the pump control input, the first visual image being different than the second visual image.

9 (New). A device according to claim 8, wherein the generator generates radio-frequency energy.

10 (New). A device according to claim 8, wherein the first visual image comprises an icon.

11 (New). A device according to claim 8, wherein the first visual image comprises an idealized image of the electrode structure.

12 (New). A device according to claim 11, wherein the idealized image includes an indication of a tissue temperature condition adjacent the electrode structure.

13 (New). A device according to claim 11, wherein the idealized image includes an indication of contact between the electrode structure and tissue in the tissue region.

14 (New). A device according to claim 11, wherein the idealized image includes an indication of electrical impedance adjacent the electrode structure.

15 (New). A device according to claim 8, wherein the second image comprises an icon.

16 (New). A device according to claim 8, wherein the second image comprises an idealized image of a fluid dispensing element.

17 (New). A device according to claim 16, wherein the fluid dispensing element comprises a faucet.

18 (New). A device according to claim 8, wherein the controller includes a control function that governs reuse of the electrode structure.

19 (New). A device according to claim 8, wherein the controller includes a control function that controls delivery of energy based, at least in part, upon a sensed tissue temperature condition.

20 (New). A device according to claim 8, wherein the controller includes a control function that controls delivery of energy based, at least in part, upon a sensed electrical impedance condition.

21 (New). A system for treating a tissue at or near a sphincter comprising an electrode structure comprising a plurality of tissue-piercing energy delivery devices for forming a lesion pattern in submucosal tissue at or near the sphincter, and a device as defined in claim 8 coupled to the electrode structure.

22 (New). A system according to claim 21, wherein the electrode structure includes at least one port communicating with the tubing to dispense cooling fluid from the source to the tissue region.

23 (New). A method of treating a tissue at or near a sphincter using a device as defined in claim 8.

24 (New). A method of treating a dysfunction in the upper gastrointestinal tract using the device as defined in claim 8.

25 (New). A method according to claim 24, wherein the dysfunction includes gastro-esophageal reflux disease.

26 (New). A method of treating a dysfunction in the lower gastrointestinal tract using the device as defined in claim 8.

27 (New). A method according to claim 26, wherein the dysfunction includes fecal incontinence.

28 (New). A method of treating a hemorrhoid using the device as defined in claim 8.

29 (New). A method of treating urinary incontinence using the device as defined in claim 8.

30 (New). A method of treating a tissue at or near a sphincter using a system as defined in claim 21.

31 (New). A method of treating a dysfunction in the upper gastrointestinal tract using a system as defined in claim 21.

32 (New). A method according to claim 31, wherein the dysfunction includes gastro-esophageal reflux disease.

33 (New). A method of treating a dysfunction in the lower gastrointestinal tract using a system as defined in claim 21.

34 (New). A method according to claim 33, wherein the dysfunction includes fecal incontinence.

35 (New). A method of treating a hemorrhoid using a system as defined in claim 21.

36 (New). A method of treating urinary incontinence using a system as defined in claim 21.